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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/879,994	06/14/2001	Minoru Teshigawara	862.C2266	4699
5514	7590 10/27/2005	EXAMINER		
FITZPATRICK CELLA HARPER & SCINTO 30 ROCKEFELLER PLAZA			HOFFMAN, BRANDON S	
NEW YORK, NY 10112		ART UNIT	PAPER NUMBER	
			2136	

DATE MAILED: 10/27/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)		
Office Action Summary		09/879,994	TESHIGAWARA, MINORU		
		Examiner	Art Unit		
		Brandon S. Hoffman	2136		
Period fo	The MAILING DATE of this communication ap or Reply	pears on the cover sheet with th	e correspondence address		
WHIC - External after - If NO - Faitu Any r	ORTENED STATUTORY PERIOD FOR REPL CHEVER IS LONGER, FROM THE MAILING D asions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period re to reply within the set or extended period for reply will, by statute eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATI 136(a). In no event, however, may a reply be will apply and will expire SIX (6) MONTHS fr e, cause the application to become ABANDO	ON.  timely filed  om the mailing date of this communication.  NED (35 U.S.C. § 133).		
Status					
1)⊠	Responsive to communication(s) filed on 16 A	Jugust 2005			
•	This action is <b>FINAL</b> . 2b) This action is non-final.				
• —	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
٥,۵	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Dispositi	on of Claims				
4) 🖂	4)⊠ Claim(s) <u>1-23</u> is/are pending in the application.				
• —	4a) Of the above claim(s) is/are withdrawn from consideration.				
	5) Claim(s) is/are allowed.				
·	☐ Claim(s) is/are rejected.				
· ·	Claim(s) is/are objected to.				
	Claim(s) are subject to restriction and/o	or election requirement.			
Applicati	on Papers				
	The specification is objected to by the Examin	er			
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
, —	ınder 35 U.S.C. § 119				
•	•	nniority under 35 H.S.C. & 119	(a)-(d) or (f)		
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a)ı	a) All b) Some * c) None of:				
	<ul> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> </ul>				
<ul> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage</li> </ul>					
	application from the International Bureau (PCT Rule 17.2(a)).				
* See the attached detailed Office action for a list of the certified copies not received.					
See the attached detailed Office action for a list of the contined copies not received.					
Attachmen	t(s)				
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)					
2) Notic	e of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mai	l Date		
	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 r No(s)/Mail Date	5) Notice of Information Other:	al Patent Application (PTO-152)		

## **DETAILED ACTION**

1. Claims 1-23 are pending in this office action.

2. Applicant's arguments filed August 16, 2005, have been fully considered but they are not persuasive.

## Rejections

3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

## Claim Rejections - 35 USC § 103

4. <u>Claims 1-11 and 16-23</u> are rejected under 35 U.S.C. 103(a) as being unpatentable over <u>Usami et al.</u> (U.S. Patent No. 6,785,814) in view of <u>Hamada et al.</u> (U.S. Patent No. 4,864,108).

With respect to Claims 1, 17, and 22, the limitation of "additional information generating means for generating additional information; and adding means for adding the additional information to image data to generate information-added data by Usami et al on column 20, lines 10-29. The supplemental information generating means represents the additional information while the embedding means represents the adding means.

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The limitation of "encrypting means for encrypting the information-added data to make it difficult to detect that the additional information is added" by Hamada et al. on column 3, lines 9-32.

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It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings of Hamada et al. within the system of Usami et al. because the combination of separate data which are then encrypted together allows a facility, such as a bank, to store the combined, secured data for retrieval purposes in case of an intrusion.

With respect to Claims 2 and 18, the limitation of "wherein said encrypting means encrypts the information-added data to make it difficult to detect a position where the additional information is added" by Usami et al on column 1, lines 16-21 and on column 2, lines 37-40. Deep layer encryption is a method of embedding images that make them invisible to the human eye.

With respect to Claim 3, the limitation of "wherein said encrypting means adds key information for specifying an encryption method to the encrypted information-added data" by Usami et al on column 1, lines 16-21.

With respect to Claim 4, the limitation of "wherein said encrypting means encrypts the information-added data by randomly arranging the data" on column 2, lines 22-34 of Usami et al.

With respect to Claim 5, the limitation of "wherein said encrypting means arranges the information-added data on the basis of a predetermined random pattern" on column 2, lines 22-34 of Usami et al.

With respect to Claim 6, the limitation of "wherein the key information is information for specifying the random pattern" is met on column 2, lines 22-34 of Usami et al.

With respect to Claim 7, the limitation of "transmitting means for transmitting the image data encrypted by said encrypting means to a connected image forming apparatus" on Fig. 5 of Usami et al.

With respect to Claim 8, the limitation of "wherein the additional information includes first information for specifying the image forming apparatus" on column 12, lines 39-49 of Usami et al.

With respect to Claim 9, the limitation of "wherein the first information is notified from the image forming apparatus" on column 12, lines 39-49 of Usami et al.

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With respect to Claim 10, the limitation of "wherein the additional information includes second information associated with a processing environment for the image data" on column 4, lines 31-46 of Usami et al.

With respect to Claim 11, the limitation of "wherein the second information includes information for specifying the image processing apparatus" on column 4, lines 31-46 of Usami et al.

With respect to Claim 16, the limitation of "wherein the image data is color image data made of a plurality of color components, and said adding means adds the additional information to data of a predetermined color component of the color image data" on column 2, lines 40-53, 66-67 and on column 3, lines 1-20 of Usami et al.

With respect to Claim 19, the limitation of "an image processing system having an image processing apparatus connected to an image forming apparatus" is met on Fig. 5 and on column 1, lines 16-20 of Usami et al; and "said image processing apparatus including additional information generating means for generating additional information; and adding means for adding the additional information to image data to generate information-added data; and "transmitting means for transmitting the encrypted image data to said image forming apparatus" is met on Fig. 5 of Usami et al; and "said image forming apparatus including receiving means for receiving the encrypted data transmitted from said image processing apparatus; and image forming

means for forming a visible image on the basis of the decrypted information-added data" is met by Fig. 5 and on column 16, lines 18-30 of Usami et al.

The limitation of "encrypting means for encrypting the information-added data to make it difficult to detect that the additional information is added" and "decrypting means for obtaining the information-added data by decrypting the received encrypted data" by Hamada et al on column 3, lines 9-32

It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings of Hamada et al. within the system of Usami et al. because the combination of separate data which are then encrypted together allows a facility, such as a bank, to store the combined, secured data for retrieval purposes in case of an intrusion.

With respect to Claim 20, the limitation of "wherein said encrypting means encrypts the information-added data to make it difficult to detect a position where the additional information is added" is met by column 1, lines 16-21 of Usami et al.

With respect to Claim 21, the limitation of "wherein said encrypting means adds key information for specifying an encryption method to the encrypted information-added data" on column 1, lines 16-21 of Usami et al; and "said decrypting means decrypts the

encrypted data on the basis of the key information added by said encrypting means" on column 16, lines 18-30 of Usami et al.

With respect to Claim 23, the limitation of "a storage medium storing the program defined in claim 22" is met by Fig. 1 of Usami et al. The storage management information generating means represents the storage medium.

Claims 12-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Usami et al. (USPN '814) and Hamada et al. (USPN '108) in view of Ito et al. (US 2001/0013097 A1).

With respect to Claim 12, all the limitation is met by Usami et al/Hamada et al. except for the following limitation.

The limitation of "wherein the information for specifying the image processing apparatus includes a network ID of the image processing apparatus" by Ito et al on paragraph 13.

It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings of Ito et al within the system of Usami et al/Hamada et al because a network ID is essential for the image processing apparatus to be identifiable and hence connected to a network.

With respect to Claim 13, all the limitation is met by Usami et al/Hamada et al except for the following limitation.

The limitation of "wherein the network ID is acquired in accordance with a type of network to which the image processing apparatus is connected" is met by Ito et al on paragraph 13.

It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings of Ito et al within the system of Usami et al/Hamada et al because a network ID is essential for the image processing apparatus to be identifiable and hence connected to a network.

With respect to Claim 14, all the limitation is met by Usami et al/Hamada et al except for the following limitation.

The limitation of "wherein the information for specifying the image processing apparatus include a user ID of the image processing apparatus" is met by Ito et al on paragraph 13.

It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings of Ito et al within the system of Usami et al/Hamada

et al because a network ID is essential for the image processing apparatus to be identifiable and hence connected to a network.

With respect to Claim 15, all the limitation is met by Usami et al/Hamada et al except for the following limitation.

The limitation of "wherein the second information includes processing date information of the image data" is met by Ito et al in the abstract.

It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings of Ito et al within the system of Usami et al/Hamada et al because the processing date information will enable ID of the embedded supplemental information to be unique and hence more secure.

## Response to Arguments

- 5. Applicant argues:
  - a. The independent claim is not taught to include adding additional information to image data to generate information-added data and encrypting the information-added data to make it difficult to detect that the additional information is added (end of page 2 through page 3).
  - b. The dependent claims are allowable based on their dependency on the independent claims (end of page three through beginning of page 4).

the recording means 106.

Regarding argument (a), examiner disagrees with applicant. Column 3, lines 9-32 of Hamada et al. shows that the second electronic data gaining means 104 accepts three types of information. The first type is the image of the user, the second type is the image of the transaction medium, and the third type is the transaction data. The three information types are combined into one image data by the second electronic data gaining means 104. Encryption means 105 then encrypts an output signal of the second electronic data gaining means 104, which is then recorded onto the medium by

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Regarding argument (b), examiner disagrees with applicant. Based on the arguments set forth by the examiner above, the dependent claims stand as rejected.

#### Conclusion

6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brandon S. Hoffman whose telephone number is 571-272-3863. The examiner can normally be reached on M-F 8:30 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz R. Sheikh can be reached on 571-272-3795. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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